

# Making Space for Governance

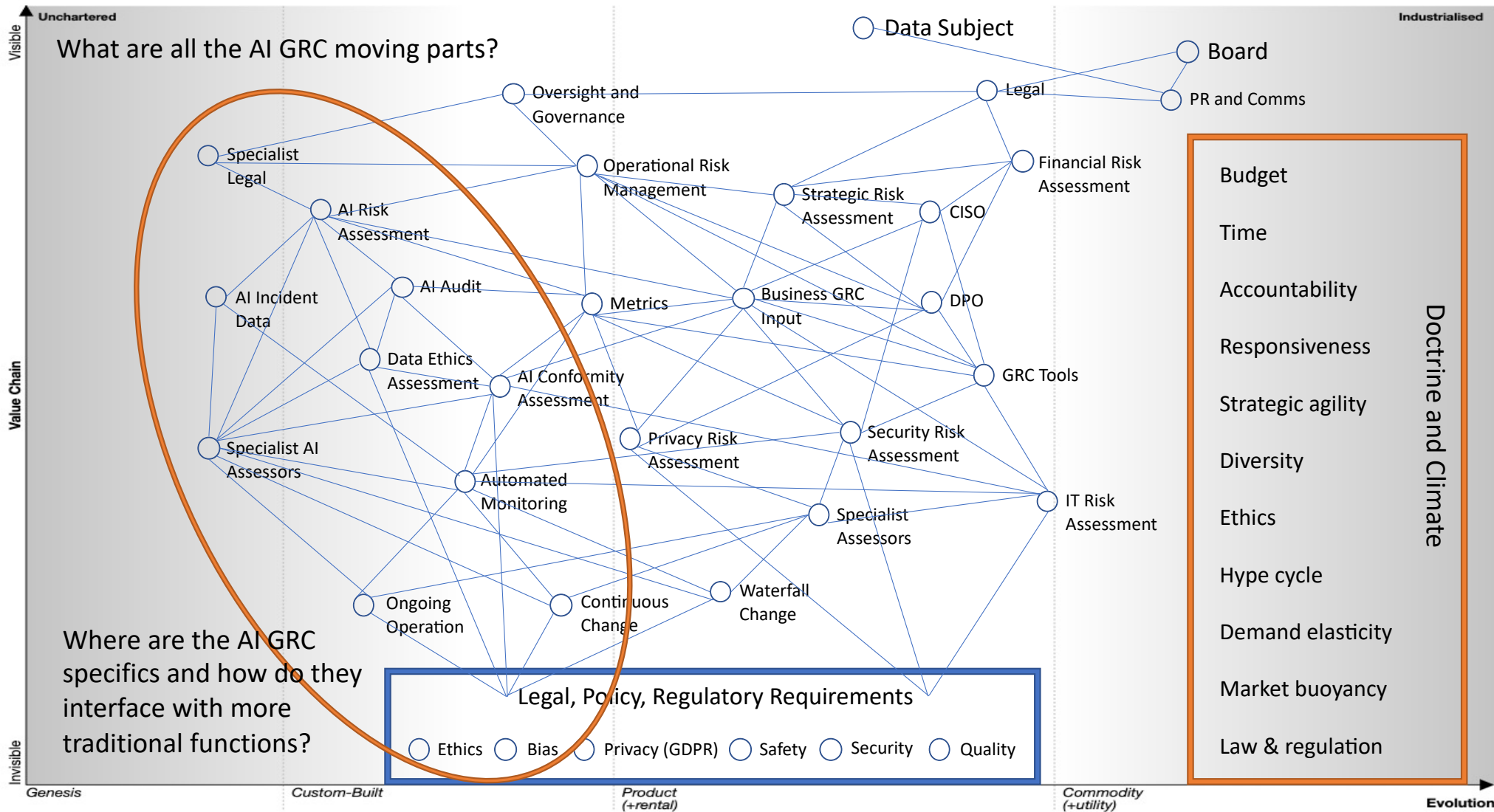
Sarah Clarke - Owner Infospectives Ltd

Cybersecurity, Data Protection, Novel Technology GRC

Vendor Security Governance Guest Lecturer for Manchester University, IEEE  
and World Ethical Data Foundation Contributor, Emeritus Fellow ForHumanity

“No-one should be accountable for something they can’t influence, or don’t understand”

# Lines of Communication



## In a nutshell:

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Accountability for risks must be FORMALLY assigned to decision-makers who have influence and means to effect change...

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...decision-makers must REMAIN accountable until data/tech use for specified purposes ceases, or the role is formally handed over...

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...SPECIALISTS are accountable for providing clear information about requirements, risks, and blockages...

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DECISION-MAKERS are accountable for providing sufficient time, money, and support to make that work...

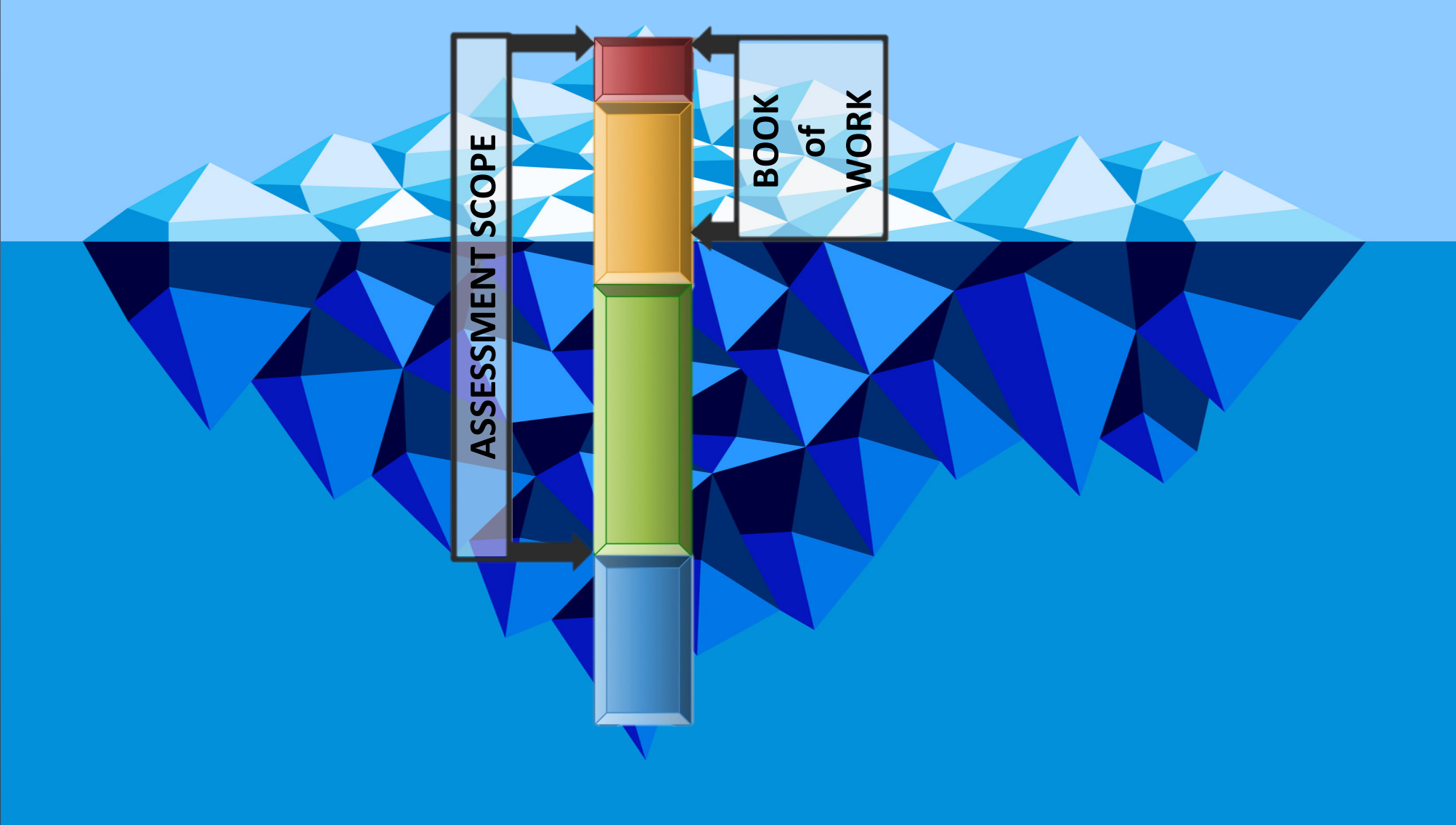
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...because NO-ONE should be accountable for something that they can't influence, or don't understand.

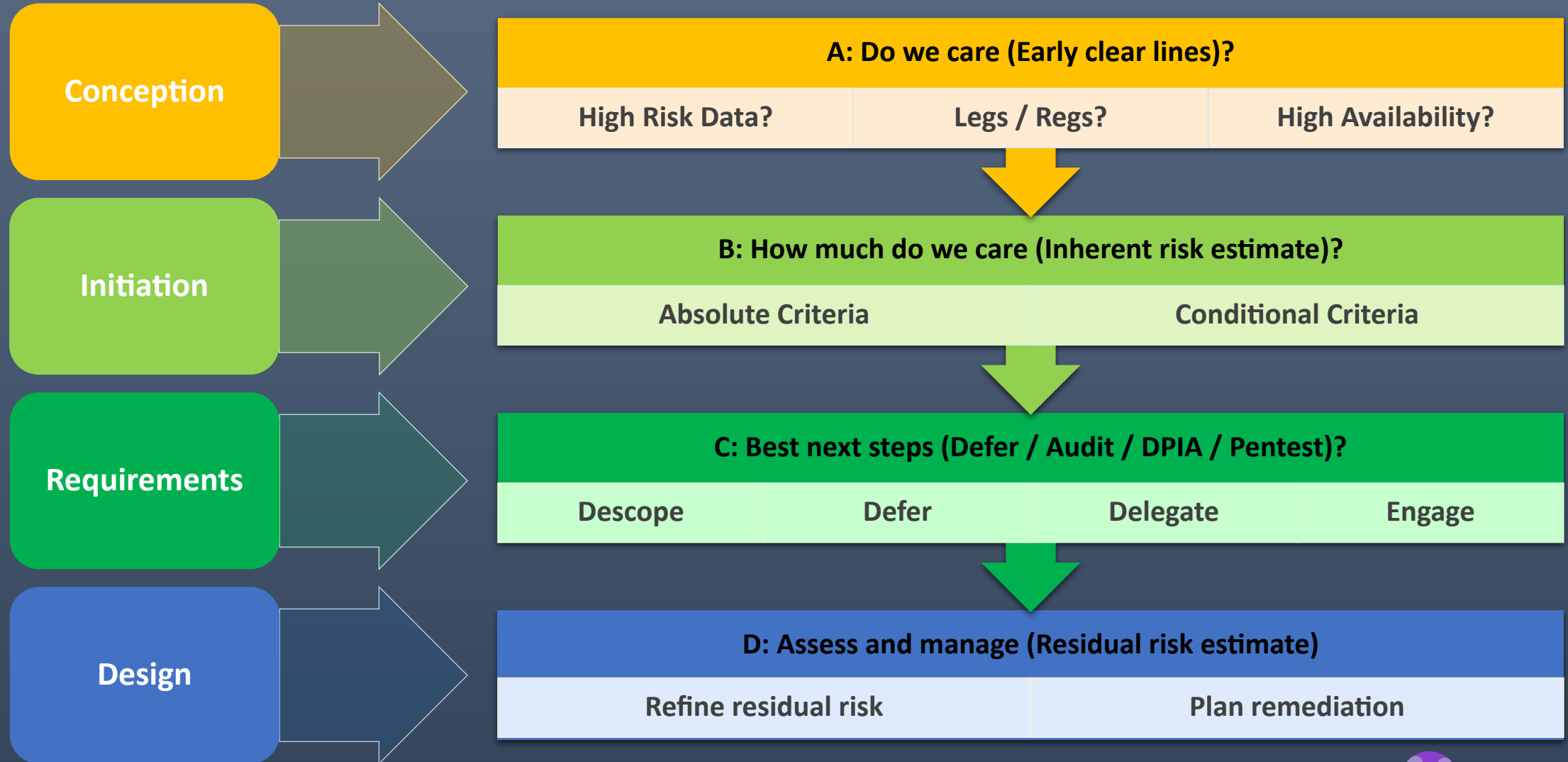
“Being uncertain is not the same as  
being at risk...

...and being at risk is not the same as  
being at intolerable or proximate risk”

# Early Triage

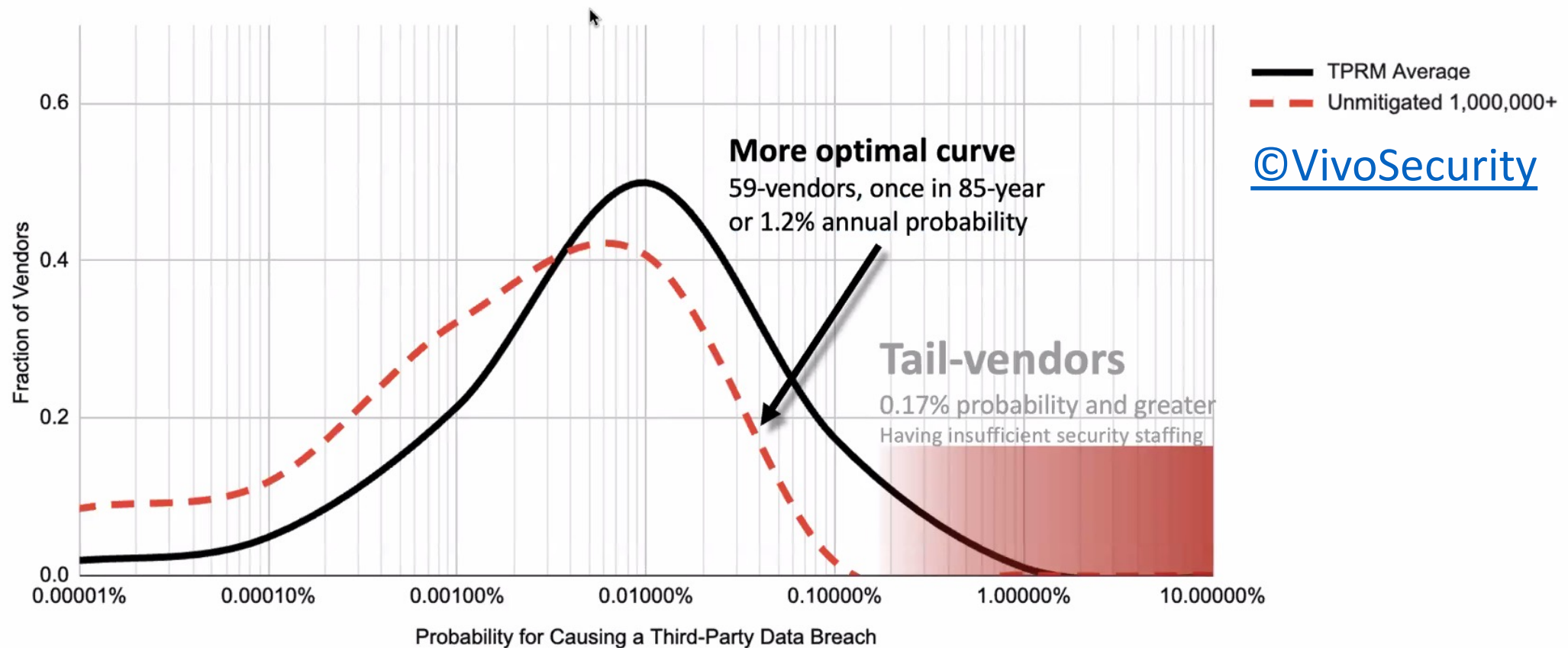


# Where would you start?



## A TPRM program that mitigates risk from tail-vendors

Rule (strategy): Don't expose 1M+ records through vendors over 0.1%-annual probability  
Eliminates: 10-vendors (69-vendors to 59-vendors)  
Cumulative-probability: **3%** (once in 34-years) to **1.2%** (once in 85-years)

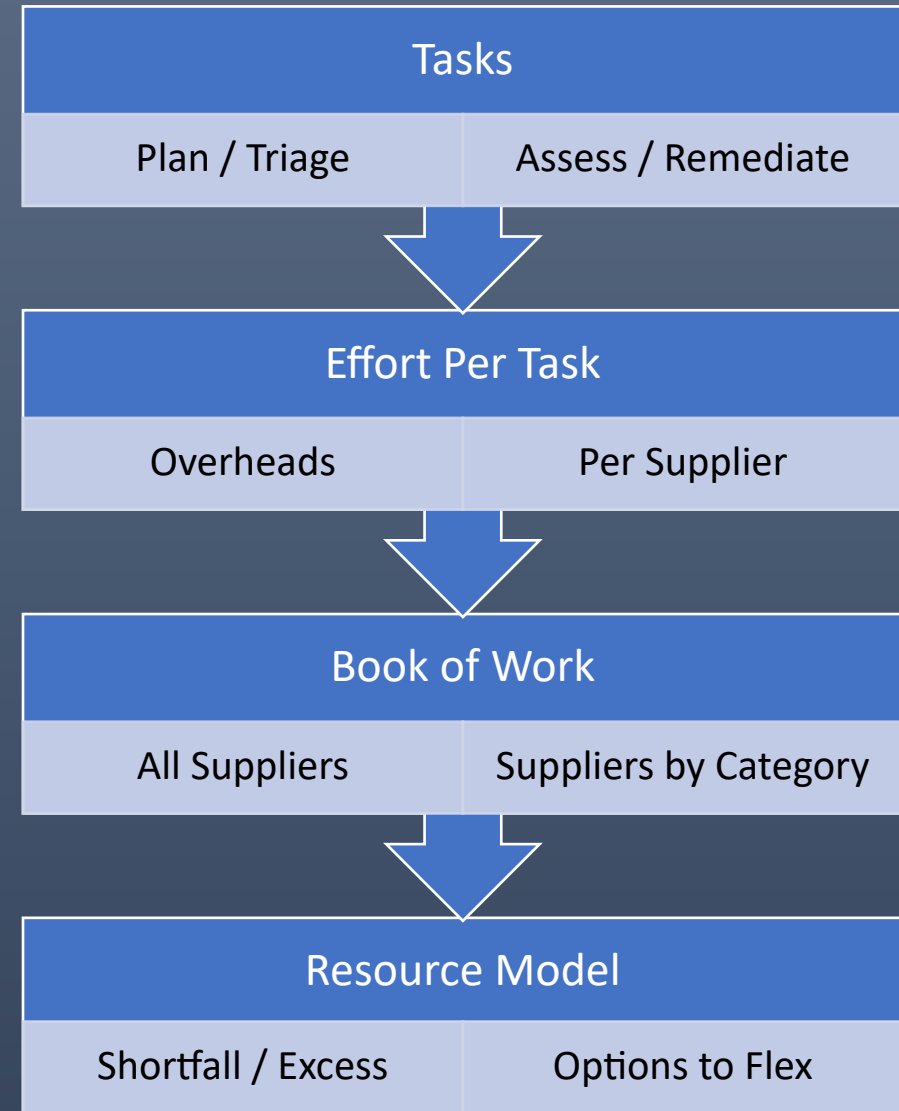
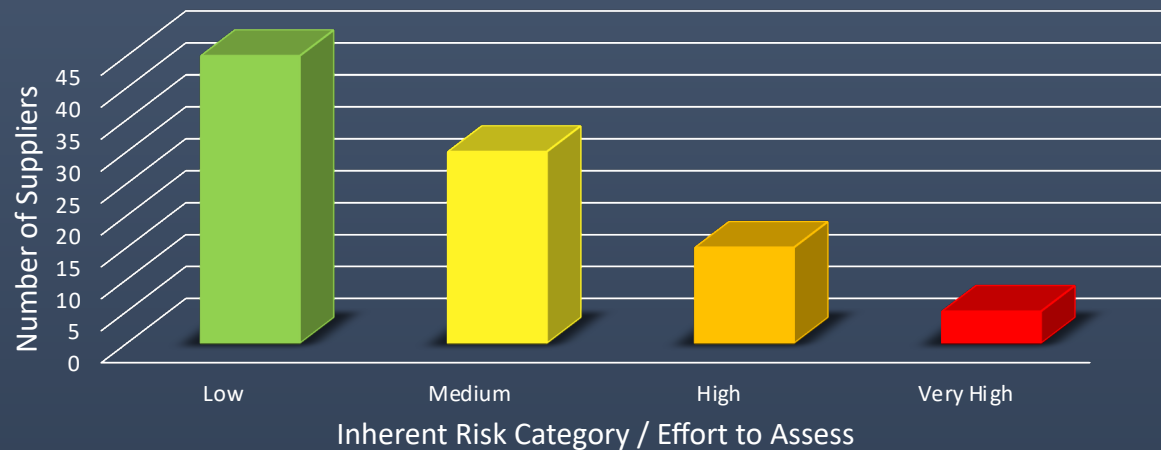




“The earlier and more constructively you escalate, the less it sounds like an excuse”

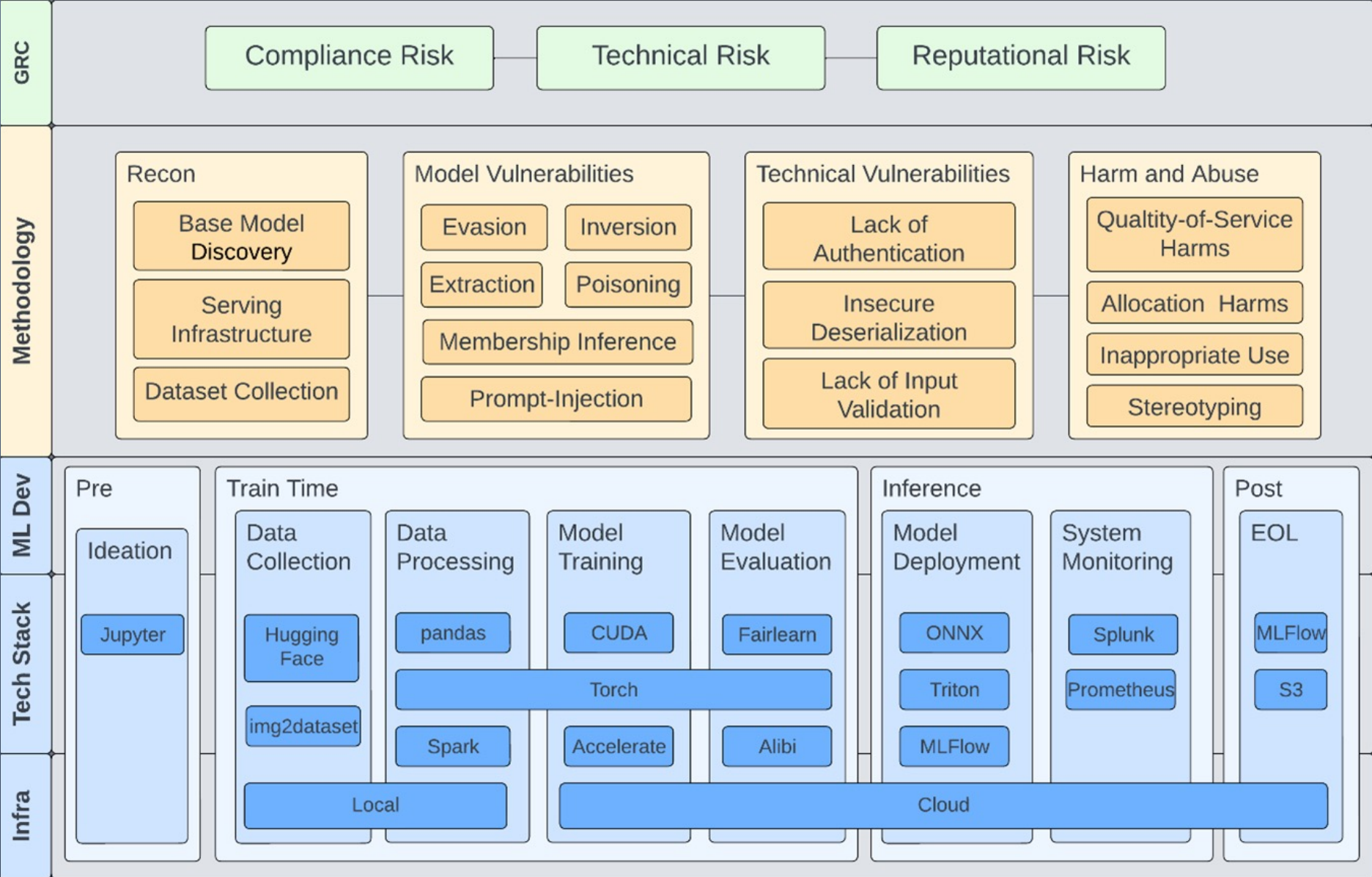
# Resource modelling

Activity	Per Supplier / Overhead
Triage	Per Supplier
Assessment	Per Supplier
Remediation / Retesting	Per Supplier
Contract negotiation	Per Supplier
Governance data collation	Per Supplier
Remediation data collation	Per Supplier
Regular on-going governance	Per Supplier
Risk management	Per Supplier
Metrics and reporting	Overhead
Process development and planning	Overhead
Training	Overhead
Stakeholder management	Overhead



“Uncertainty is not a showstopper, unless you have no plan to cover bets”

# Defining uncertainty



Source: [NVIDIA Red Teaming Introduction, June 2023](#)

## AI LIFECYCLE

Acquire and  
Prepare Data

Train Model

Model  
Evaluation

Model  
Deployment

Model  
Monitoring

### AI AUDIT / ASSESSMENT – OVERSIGHT / DOCUMENTATION / PROCESS - REVIEW

Compliant

Compliant

Compliant

Compliant

Compliant

Non-Compliant

Non-Compliant

Non-Compliant

Non-Compliant

Non-Compliant

Unknown

Unknown

Unknown

Unknown

Unknown

### AI AUDIT / ASSESSMENT – SYSTEM / CODE / DATA - TECHNICAL TESTING

Compliant

Compliant

Compliant

Compliant

Compliant

Non-Compliant

Non-Compliant

Non-Compliant

Non-Compliant

Non-Compliant

Unknown

Unknown

Unknown

Unknown

Unknown

# Assurance and governance guidance is evolving



**OWASP**  
AI security & privacy guide

Information Technology Laboratory

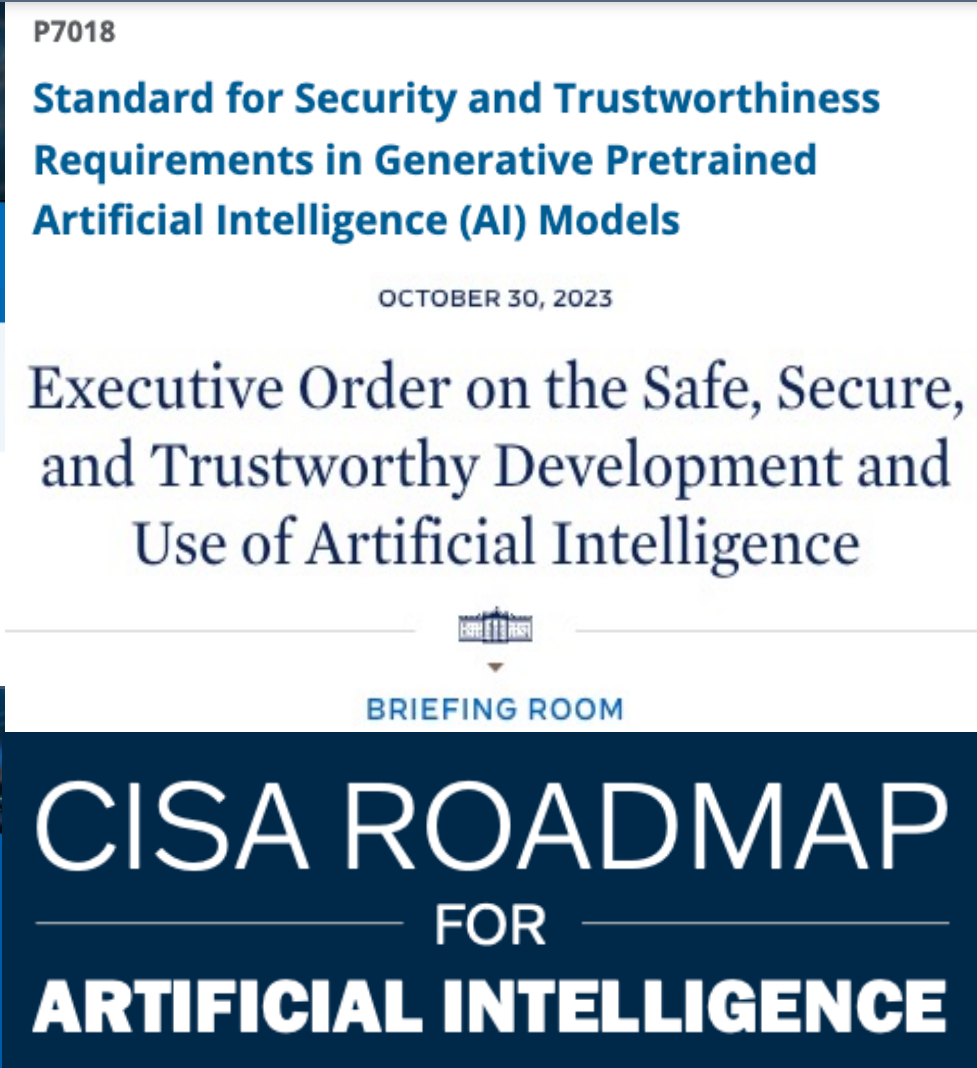
**AI RISK MANAGEMENT FRAMEWORK**

EU AI Regulation

**Conformity Assessments in the EU AI Act: What You Need to Know**

ISO/IEC 42001:2023  
Information technology  
Artificial intelligence  
Management system

Status : **Published**




P7018

**Standard for Security and Trustworthiness Requirements in Generative Pretrained Artificial Intelligence (AI) Models**

OCTOBER 30, 2023

Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence



BRIEFING ROOM

**CISA ROADMAP FOR ARTIFICIAL INTELLIGENCE**

Sources counter-clockwise: OWASP, NIST, HolisticAI, ISO/IEC, ENISA, CISA, The White House, IEEE,

“You can’t recruit for deep local knowledge”



## Live the hiring rhetoric

### AI the next big challenge for the digital skills gap, EU's Schmit says

By Luca Bertuzzi | Euractiv.com ⌚ Est. 4min 📅 18 Jul 2023 (updated: 📅 19 Jul 2023)

[Source: Euroactive 2023](#)

### OpenAI recruiters are trying to lure Google AI employees with \$10 million pay packets, report says

[Source: Business Insider 2023](#)



“It is about adverse outcomes from accidents, incidents, and breaches...

...plus potential impact when systems work exactly as we said they would”

# Health Insurance AI - What is the risk and downstream Impact?



The screenshot shows the top navigation bar of the American Medical Association (AMA) website. It includes the AMA logo, a 'Join / Renew' button, a search icon, and a user profile icon. Below the navigation bar, the article title 'Oversight needed on payers' use of AI in prior authorization' is displayed in a large, bold font. The date 'JUN 14, 2023' and the reading time '3 MIN READ' are shown below the title. The author's name, 'Tanya Albert Henry', is listed as a 'Contributing News Writer'.

“...doctors spending an average of 1.2 seconds on each case,”

“enabling... ‘fast, efficient and streamlined coverage decisions.’”

Source: [American Medical Association, June 2023](#)

“...there's a fine line between effective oversight and misconceptions of the technology... Even well-intentioned governance can be hampered by a lack of technical knowledge” Ryan Elmore



The screenshot shows the top section of a Forbes article. The title 'AI Ethics Essentials: Lawsuit Over AI Denial of Healthcare' is prominently displayed. Below the title, the author's name 'Douglas B. Laney' is listed as a 'Contributor'. His bio includes 'Data & Analytics Strategy Innovation Fellow at West Monroe.' A blue 'Follow' button is visible on the right side. At the bottom right of the article preview, the date and time 'Nov 16, 2023, 03:06pm EST' are shown.

Source: [Forbes, November 2023](#)

# Are health triage chatbots adequately governed?

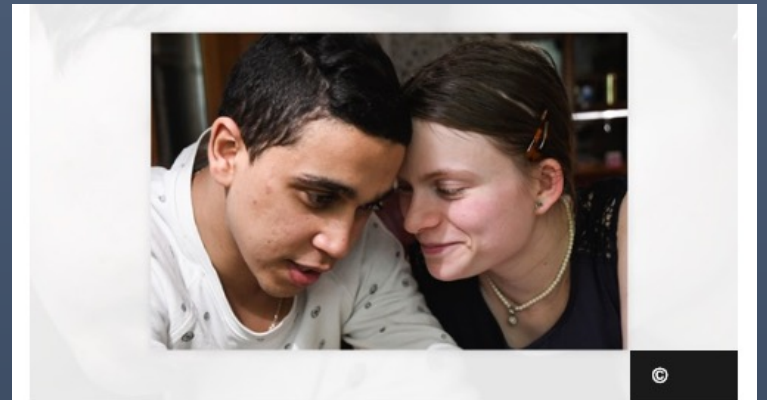
Sep 18, 2023 - Technology

**New AI tools are helping doctors screen for mental health conditions**

Source: [Axios, September 2023](#)

“...data engineering for AI models seems to be overlooked or misunderstood... shortcomings may indicate overly accelerated promotion”  
Dr Novillo-Ortiz, WHO Europe Unit Head, Data and Digital Health

“There are not enough trained mental health professionals on the planet to serve the astronomical disease prevalence,”  
Ross Harper, Limbic AI



**Artificial intelligence in mental health research: new WHO study on applications and challenges**

6 February 2023 | News release | Reading time: 3 min (678 words)

Source: [World Health Organisation, February 2023](#)

# Progress governing Software as a Medical Device (SaMD)

## Artificial Intelligence and Machine Learning (AI/ML) Software as a Medical Device Action Plan

The U.S. Food and Drug Administration (FDA) issued the "Artificial Intelligence/Machine Learning (AI/ML)-Based Software as a Medical Device (SaMD) Action Plan" from the Center for Devices and Radiological Health's Digital Health Center of Excellence.

The Action Plan is a direct response to stakeholder feedback to the April 2019 discussion paper, "Proposed Regulatory Framework for Modifications to Artificial Intelligence/Machine Learning-Based Software as a Medical Device" and outlines five actions the FDA intends to take.



Source: [FDA, January 2021](#)

## GUIDANCE DOCUMENT

# Marketing Submission Recommendations for a Predetermined Change Control Plan for Artificial Intelligence/Machine Learning (AI/ML)-Enabled Device Software Functions

*Draft Guidance for Industry and Food and Drug Administration Staff*

**APRIL 2023**

Source: [FDA, April 2023](#)

DECEMBER 14, 2023

# Delivering on the Promise of AI to Improve Health Outcomes



► [BRIEFING ROOM](#) ► [BLOG](#)

Source: [The White House, December 2023](#)

“The commitments received today will serve to align industry action on AI around the “FAVES” principles—that AI should lead to healthcare outcomes that are Fair, Appropriate, Valid, Effective, and Safe”

Source: [The White House, December 2023](#)

# Getting In touch

[Sarah.Clarke@Infospectives.co.uk](mailto:Sarah.Clarke@Infospectives.co.uk)

[Linkedin.com/in/infospectives](https://www.linkedin.com/in/infospectives)

# Noted resources, concepts and organizations

Third-party items on slides have links to sources. Other resources in rough order mentioned:

- The [World Ethical Data Foundation](#)
- [For Humanity](#)
- Six Sigma [Gemba and Gemba walks](#)
- Cynefin [Entangled Trios](#) and other [complexity management resources](#)
- [Wardley Mapping](#) visualization method for complex systems
- Sherri Douville '[Advanced Health Technology](#)' and other publications
- [EU AI Act](#) prohibited and [high-risk AI](#) classification
- OWASP [OpenCRE](#) and [Top 10 for LLMs](#) (Large Language Models)
- [IEEE P3119](#) Draft AI Procurement Standard
- [Vivo Security](#) statistical analysis of data breaches and application to Third Party Risk Management
- [Factor Analysis of Information Risk \(FAIR\)](#), cybersecurity risk modeling and quantification
- [Retrieval Augmented Generation \(RAG\)](#) for LLMs
- Executive Order to [Protect Americans' Sensitive Personal Data](#)